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TITLE: METHOD FOR FRACTIONAL DETERMINATION OF FREE ACTIVATED MATRIX METALLOPROTEASE

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APPL-NO: JP07053794

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INT-CL (IPC): G01 N 33/53; C12 N 15/02; C12 P 21/08; G01 N 33/573; G01 N 33/577

ABSTRACT:

PURPOSE: To provide a simple and quick fractional determination method of activated matrix metalloproteases (MMPs) directly related to decomposition of matrix components among the MMPs existing in a tissue or humor to enable diagnosis or monitor of pathology such as a disease aggravated by activation of the MMPs, arthrosis, infiltration or metastasis of cancer and pulmonary fibrosis.

CONSTITUTION: For highly sensitive, highly accurate and quick fractional determination of activated MMPs with simple operation and reagent, a combination of monoclonal antibodies specifically bonding to each MMP and a tissue inhibitor of metalloprotease (TIMPs) or a composite comprising TIMPs and monoclonal antibodies specifically bonding to each TIMP is used. In particular, one of solid phase carrier bonding substance and a label applying substance is a monoclonal antibody specifically bonding to the matrix metalloprotease, while the other is an inhibitor of the matrix metalloprotease, wherein they are preferably used respectively in combination.

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